

# NCPC File: #7776

## New Perimeter Fence and Gates

White House Complex  
1600 Pennsylvania Avenue, NW  
Washington, DC

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National Park Service

Final Review  
Site Development Plans

**Commission meeting date:** February 2, 2017

**NCPC review authority:** Federal project in the District of Columbia

**Applicant request:** Final review of site development plans

**Delegated / consent / open / executive session:** Open Session

**NCPC Review Officer:** M. Flis

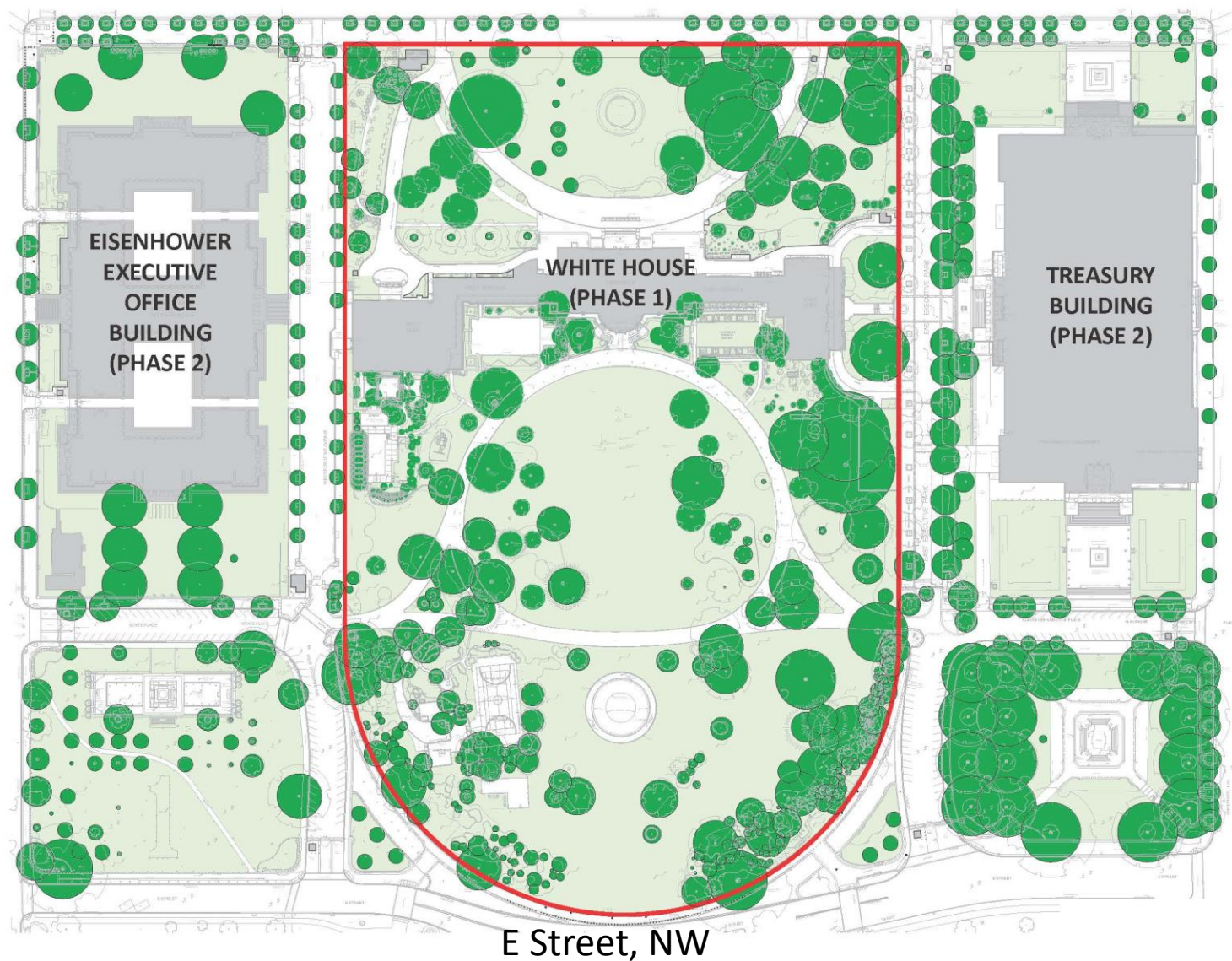
**NCPC File number:** 7776

## **Project summary:**

The National Park Service (Department of the Interior), in cooperation with the United States Secret Service, has submitted site development plans to install a new perimeter fence and gates at the White House for final review. The planned improvements will follow the existing fence alignment and will retain current gate access points. The first White House fence was installed around 1803 and has evolved over time to become the design currently in place. The fence piers will be reconstructed to be similar to the existing historic piers; however, the scale of these elements will be adjusted to accommodate the new proposed fence height. The existing light fixtures will be retained and reincorporated into the fence design. Anti-climb measures are also proposed for the top of the fence.

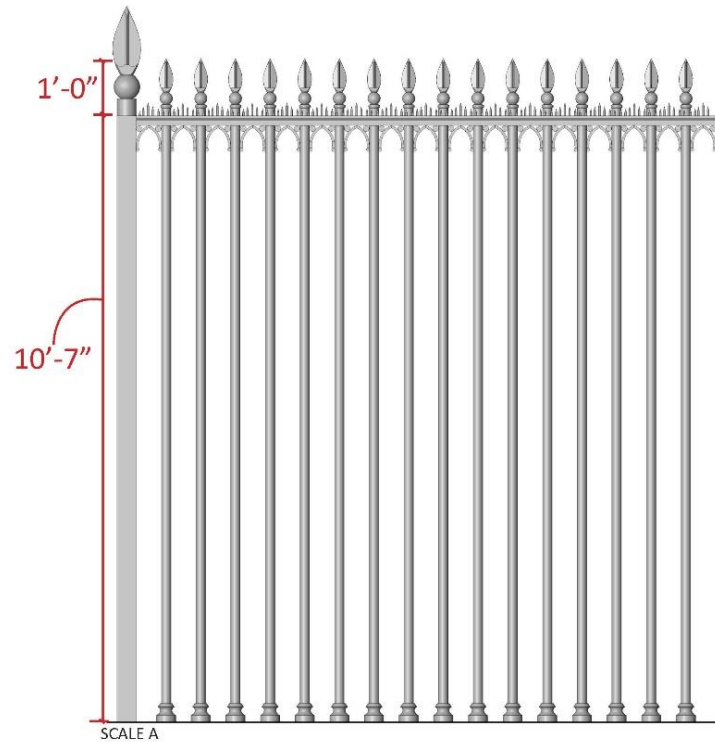
The Commission approved temporary improvements to the fence in May and July 2015. Since that time, the National Park Service (NPS) and US Secret Service (USSS) have evaluated a number of permanent security measures. In addition to security requirements, the proposed improvements consider the historic setting of the White House, a National Historic Landmark, as well as views to and from the grounds. The improvements intend to minimize impacts on the visitor experience and balance security needs with the visual quality of public space. The Commission provided comments on the concept proposal in July 2016 and approved the preliminary plans in December 2016, following a viewing of a full-size mock-up. NPS and the USSS have further developed the fence details in coordinating with NCPC and CFA staff, for final review.

Pennsylvania Avenue, NW



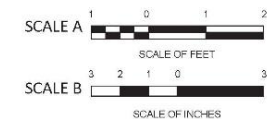
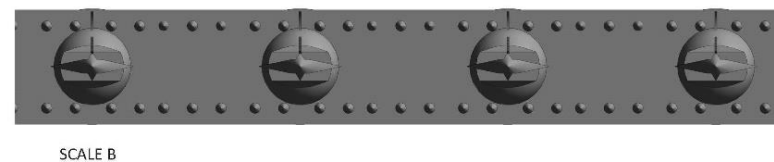
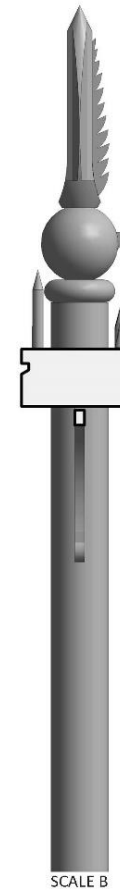
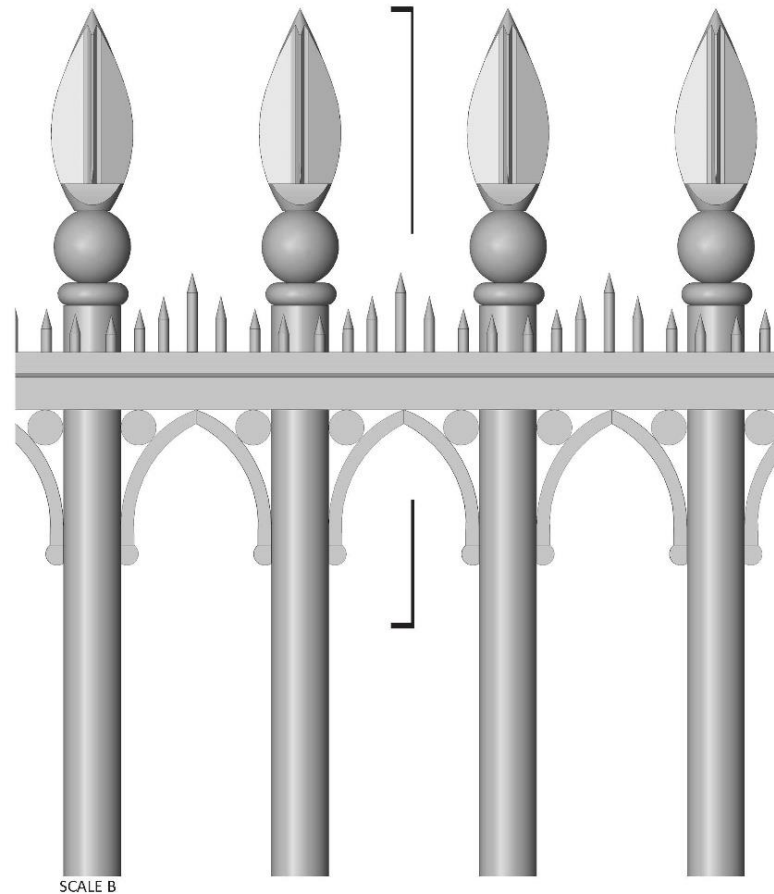
- Fence Height
- Picket Size & Spacing
- Fence Top & Base Details
- Pedestrian & Vehicular Gates



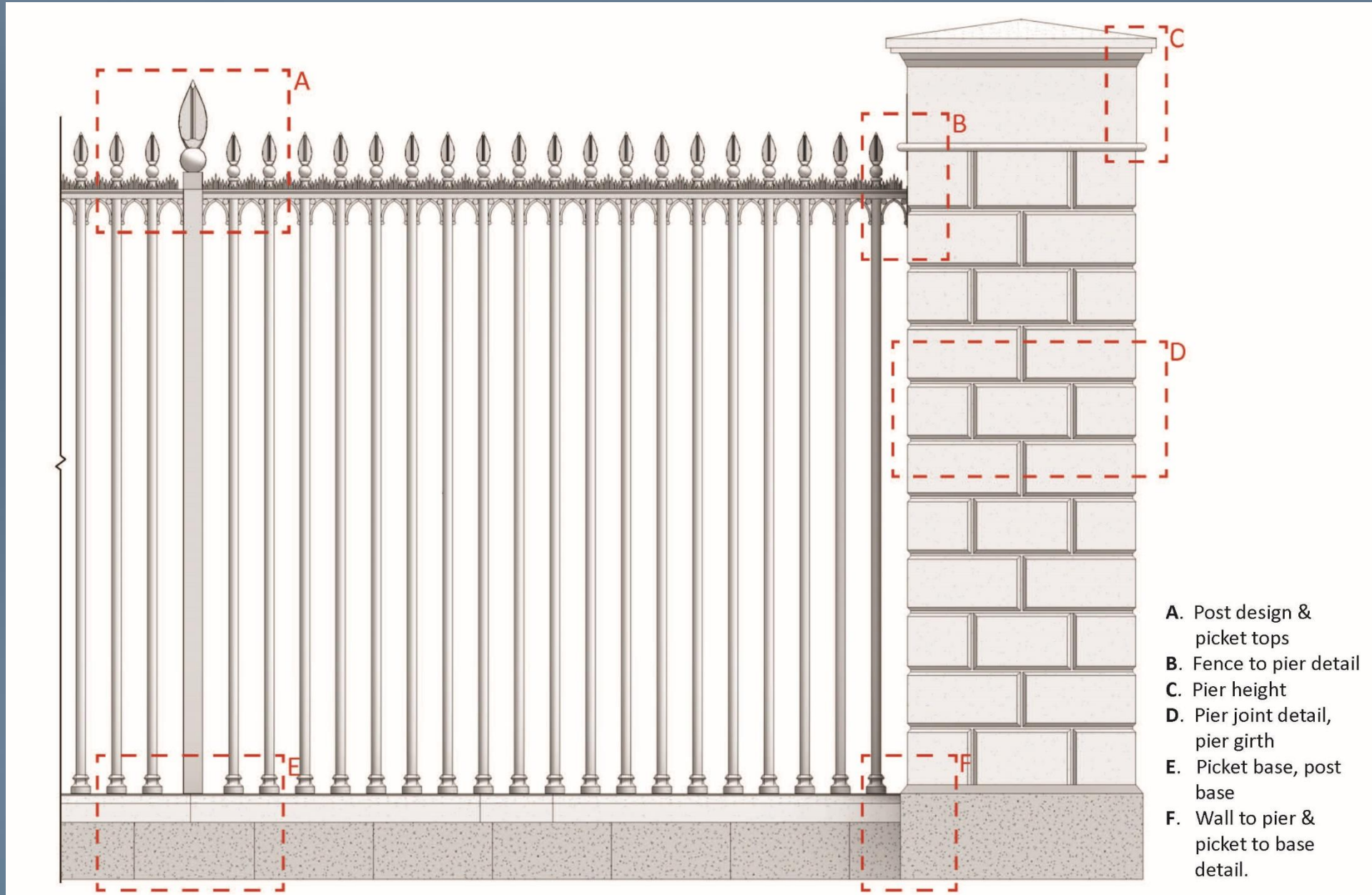


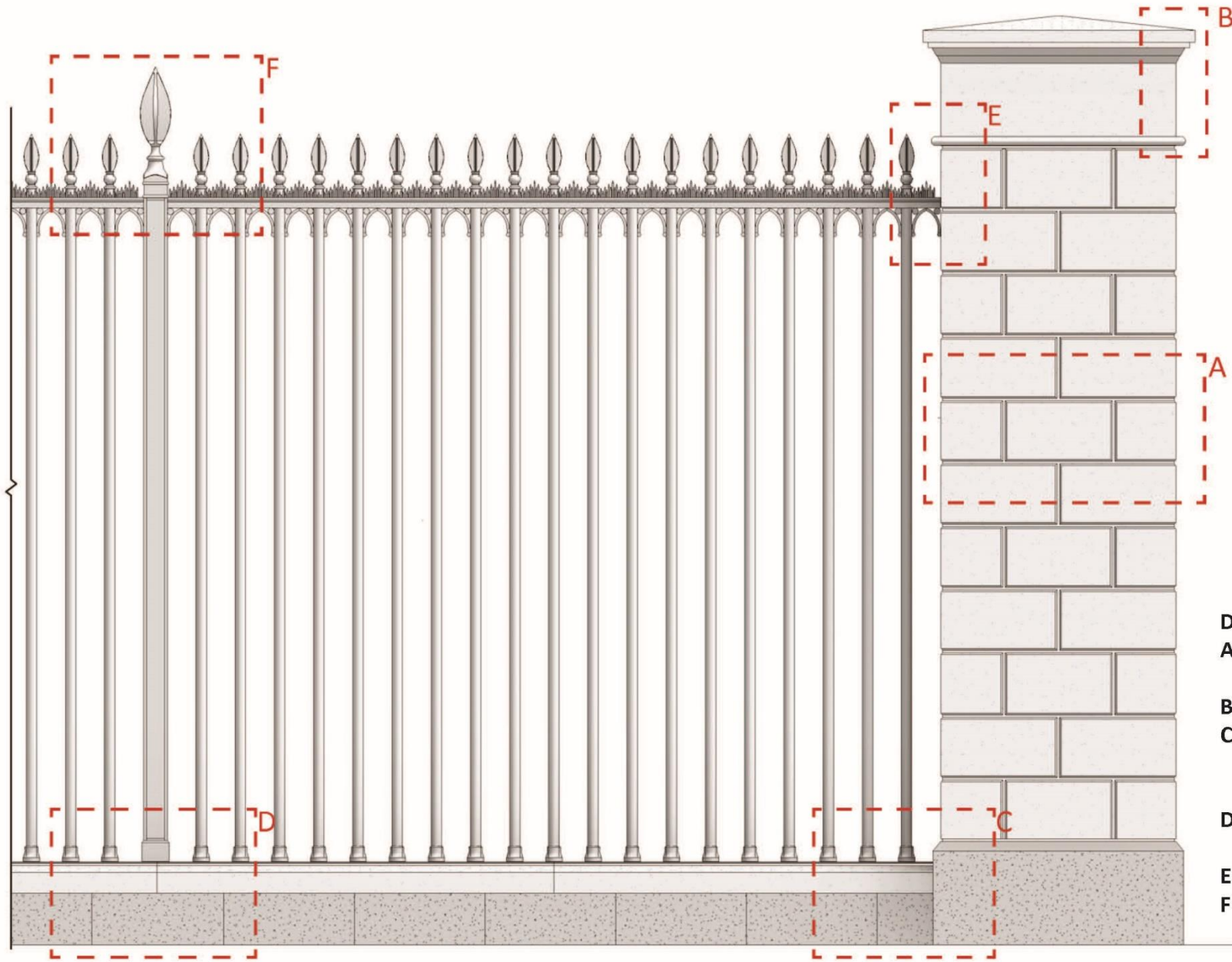
## 2" dia. Pickets with 5-1/2" Clear Space

- BEST BALANCE OF PROPORTION AND PERFORMANCE
- WIDEST OPEN SPACE BETWEEN PICKETS
- COMPARABLE METRICS TO OPTION WITH 1 3/4" PICKETS
- LEAST DENSITY OF PICKET FINIALS
- MOST EFFECTIVE PROTECTION



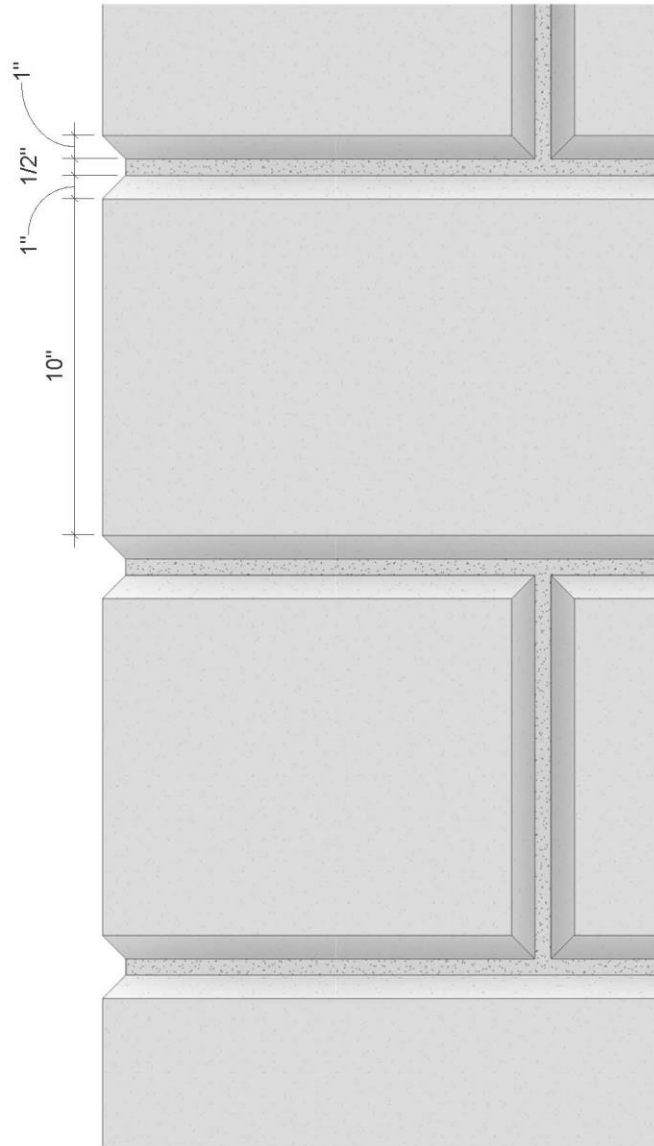
- Post design and picket tops
- Fence-pier connection detail
- Pier height, width and base
- Pier joints
- Picket base
- Base-pier connection detail



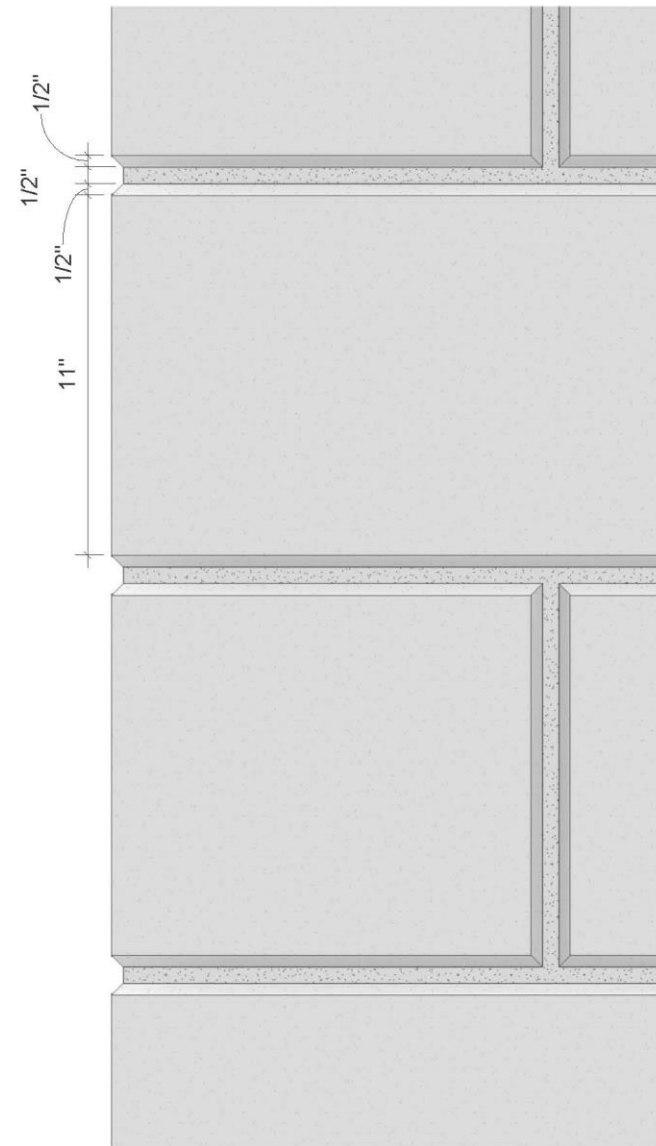


**DETAILS STUDIED:**

- A. Joint Detail & Pier Width
- B. Pier height
- C. Wall to pier & picket to base detail.
- D. Picket base, post base
- E. Fence to pier detail
- F. Post design & picket tops.

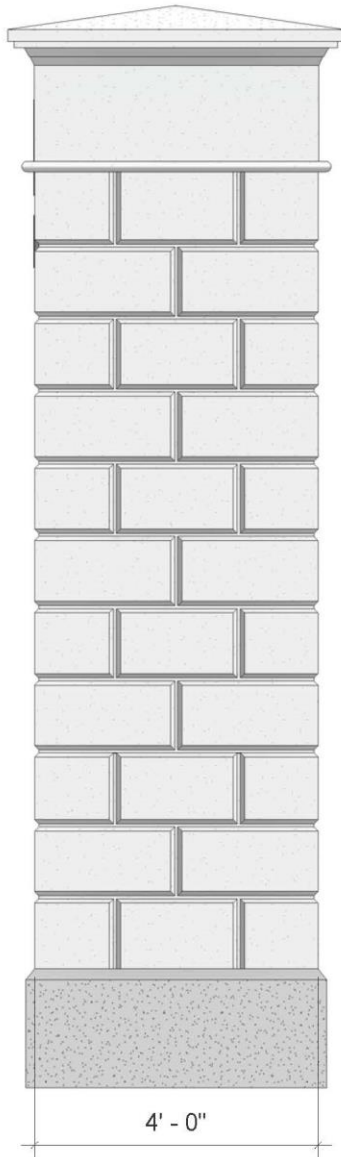


*Previously Proposed*

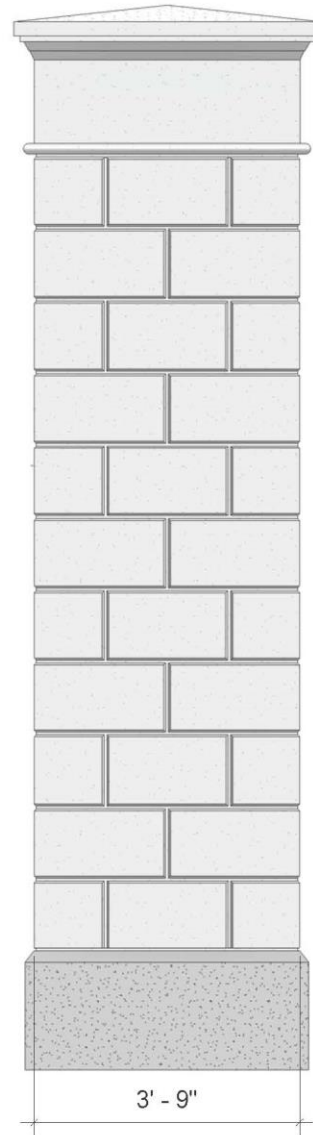


*Current Proposal*

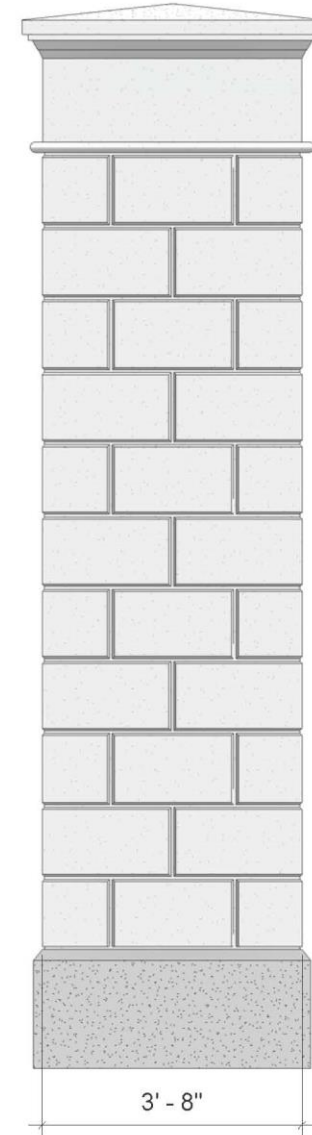




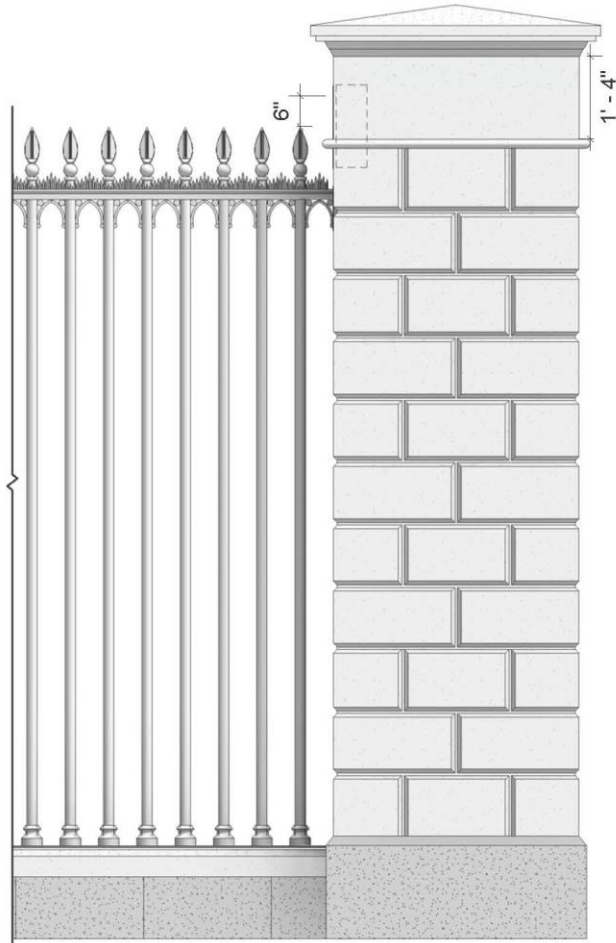
*Previously Reviewed*



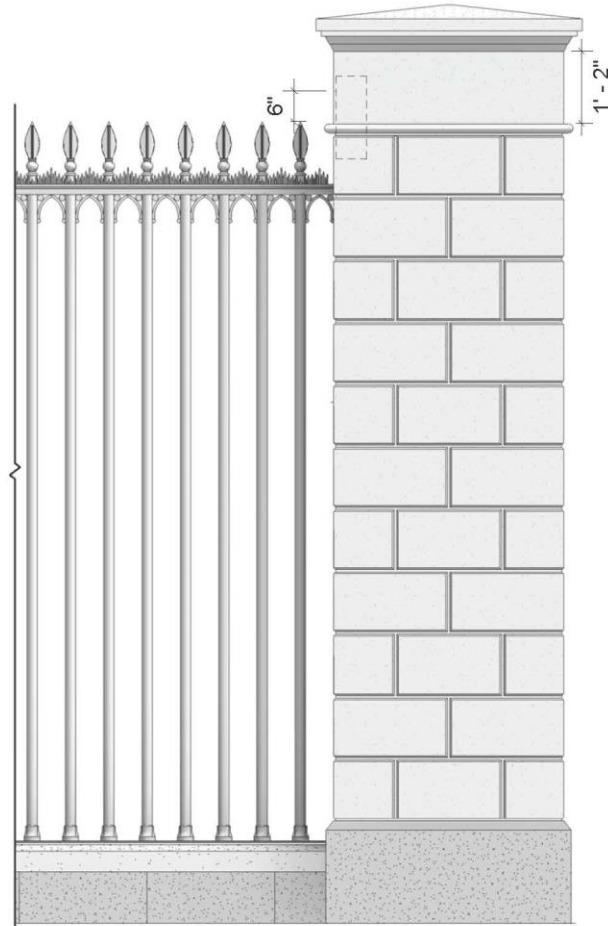
*Proposal/Study 1*  
*\*Preferred Design*



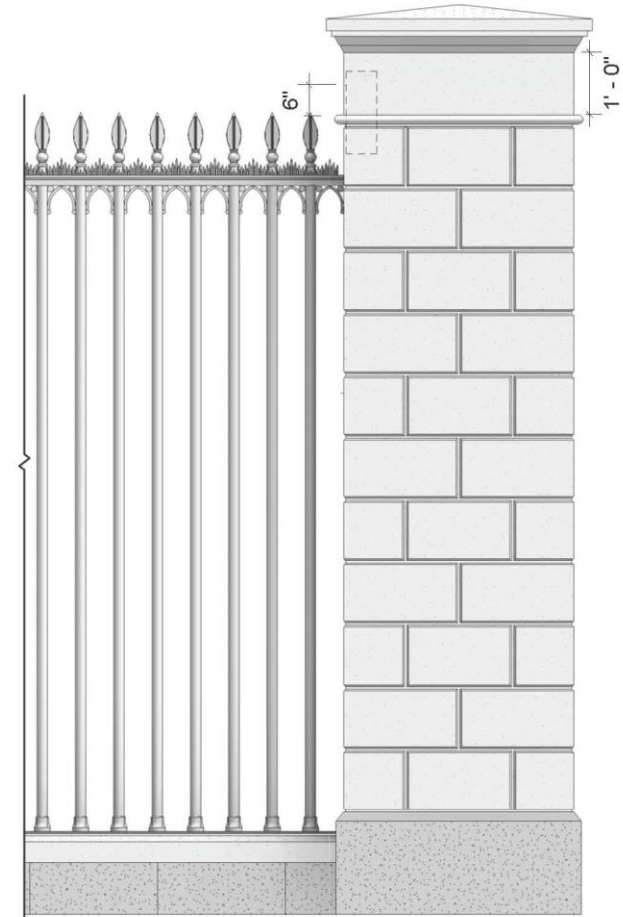
*Proposal/Study 2*



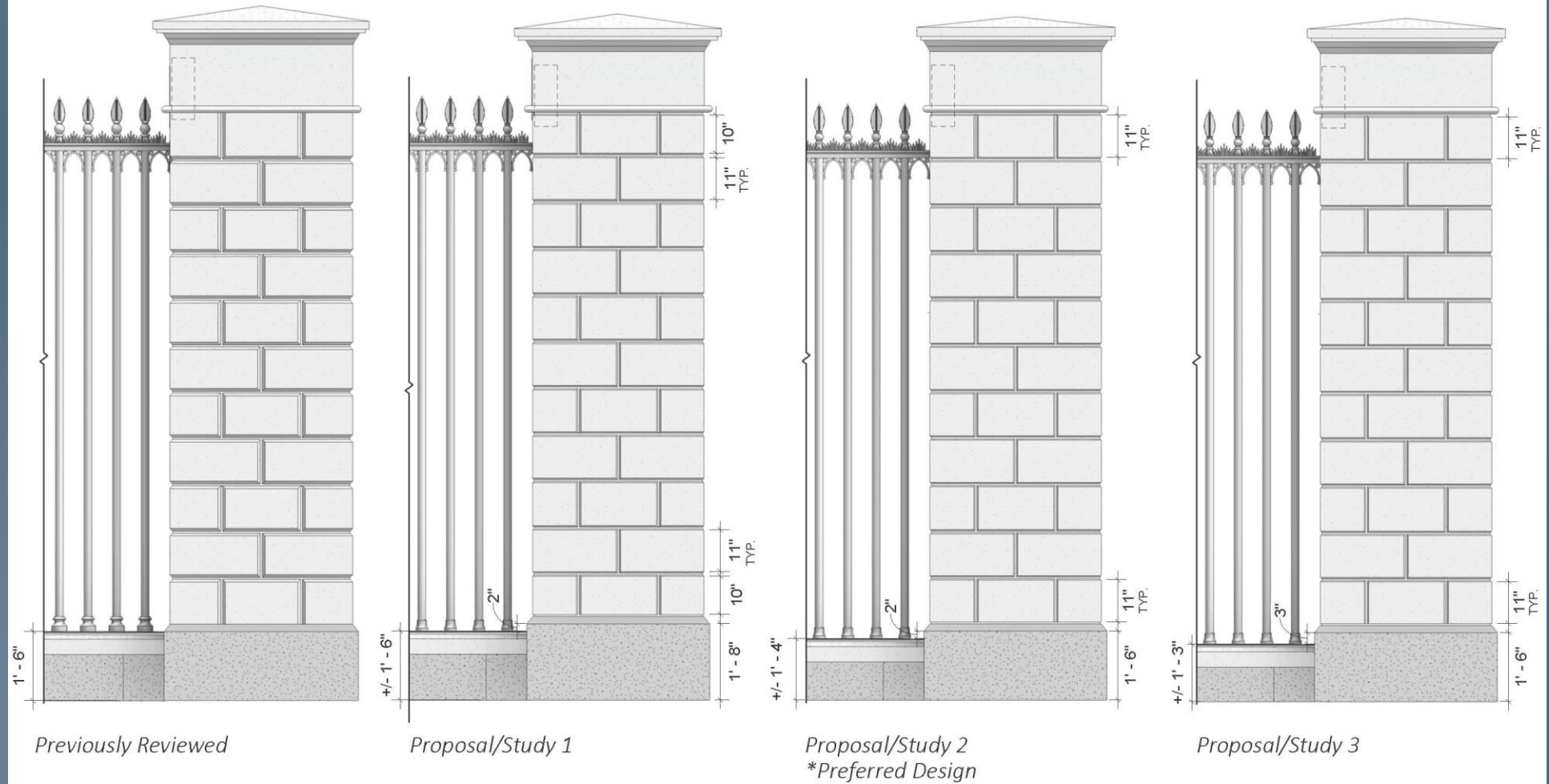
*Previously Reviewed*

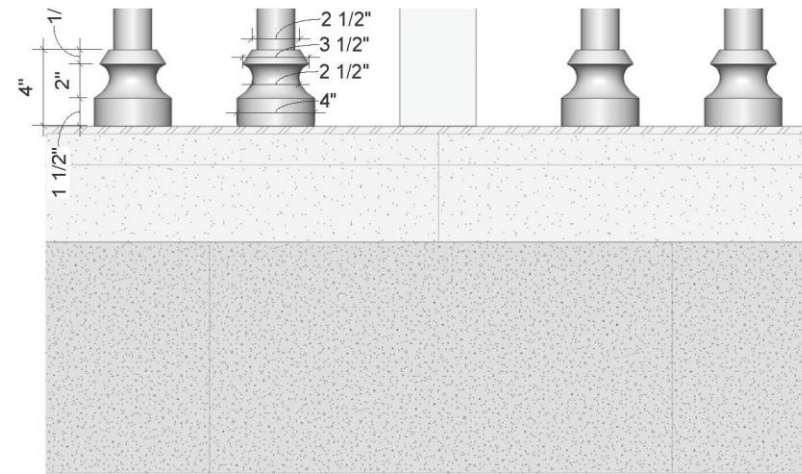


*Proposal/Study 1*  
*\*Preferred Design*

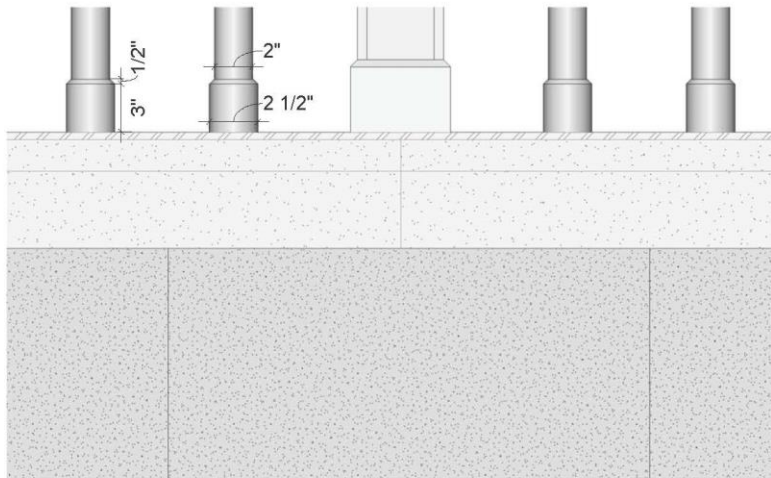


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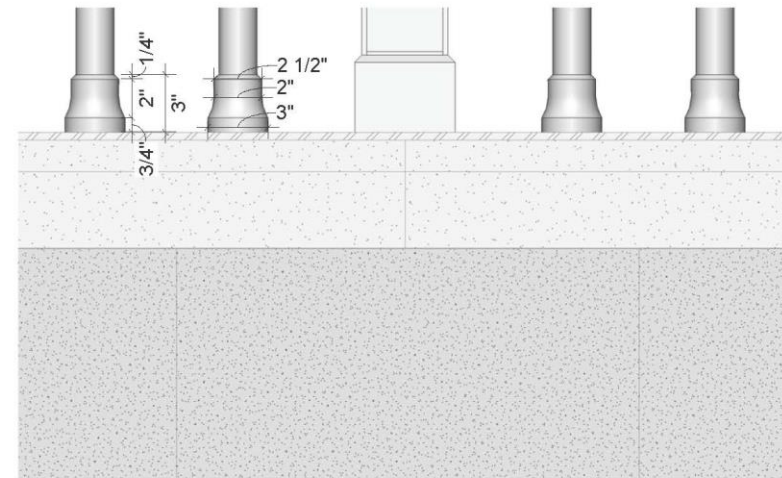




*Previously Reviewed*

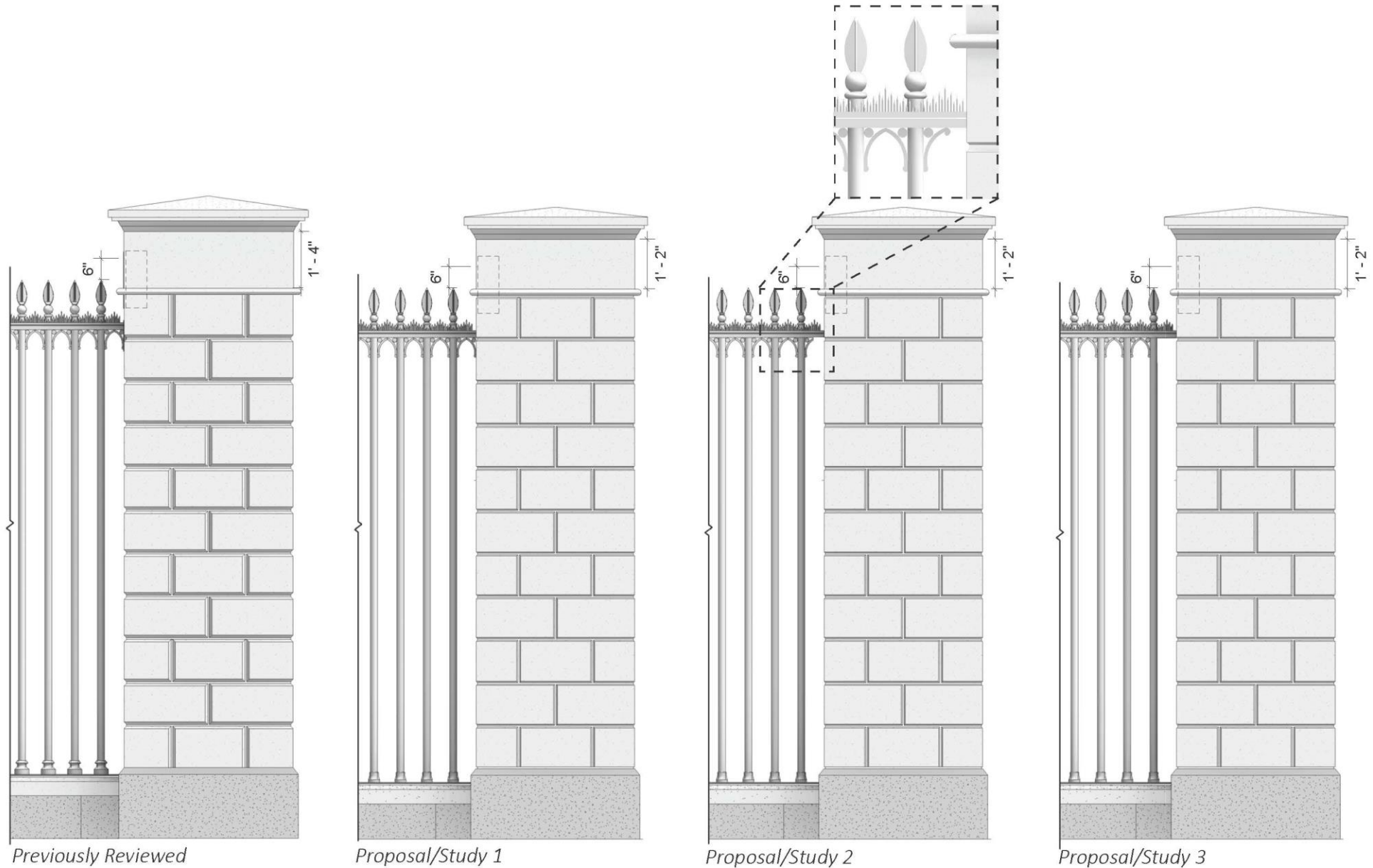


*Proposal/Study 1*

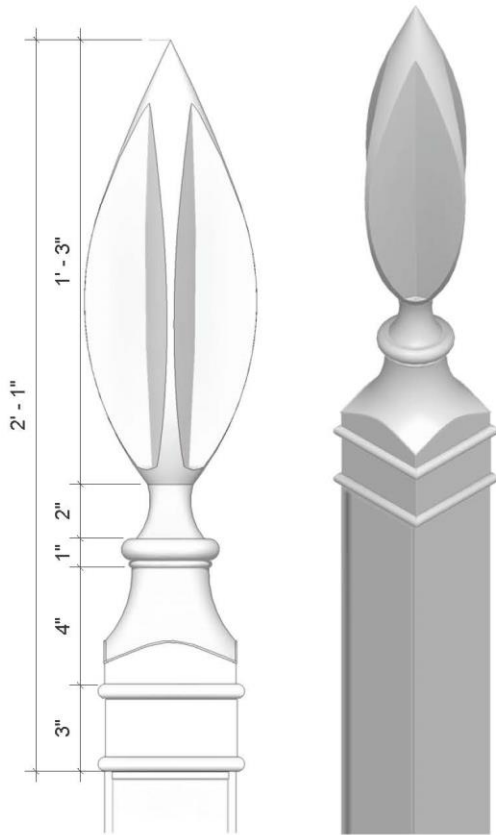


*Proposal/Study 2  
\*Preferred Design*

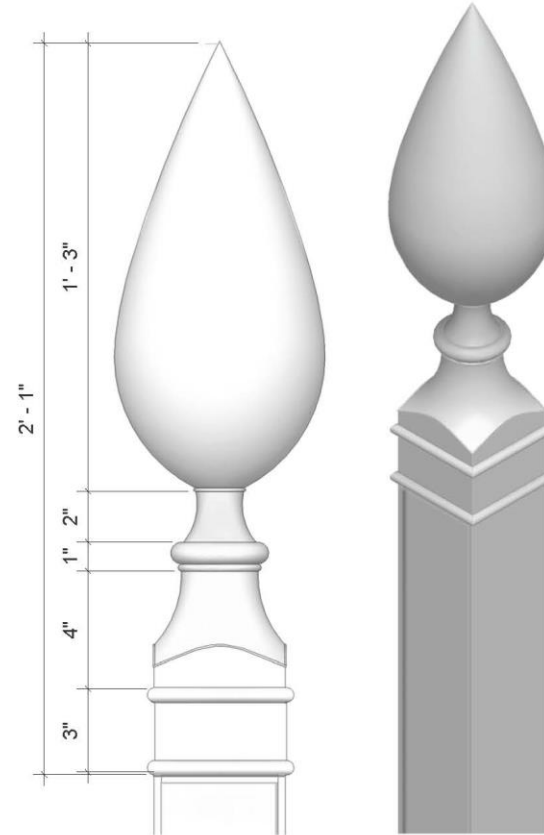




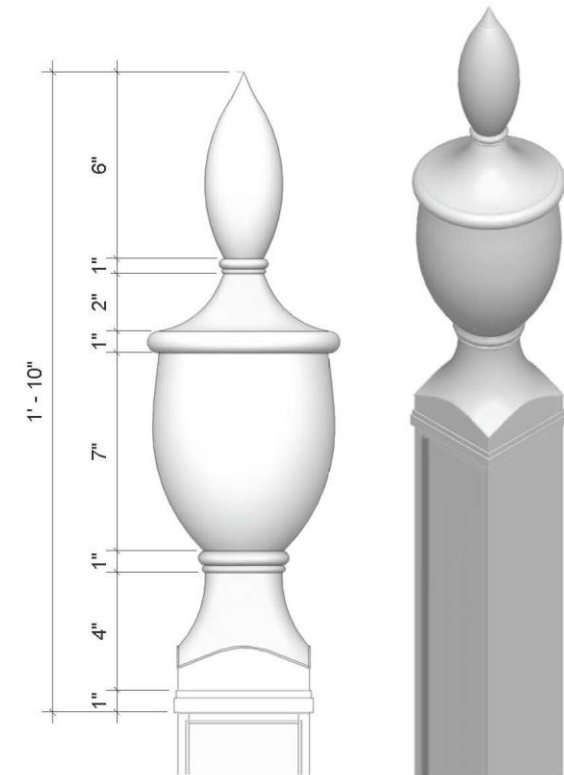




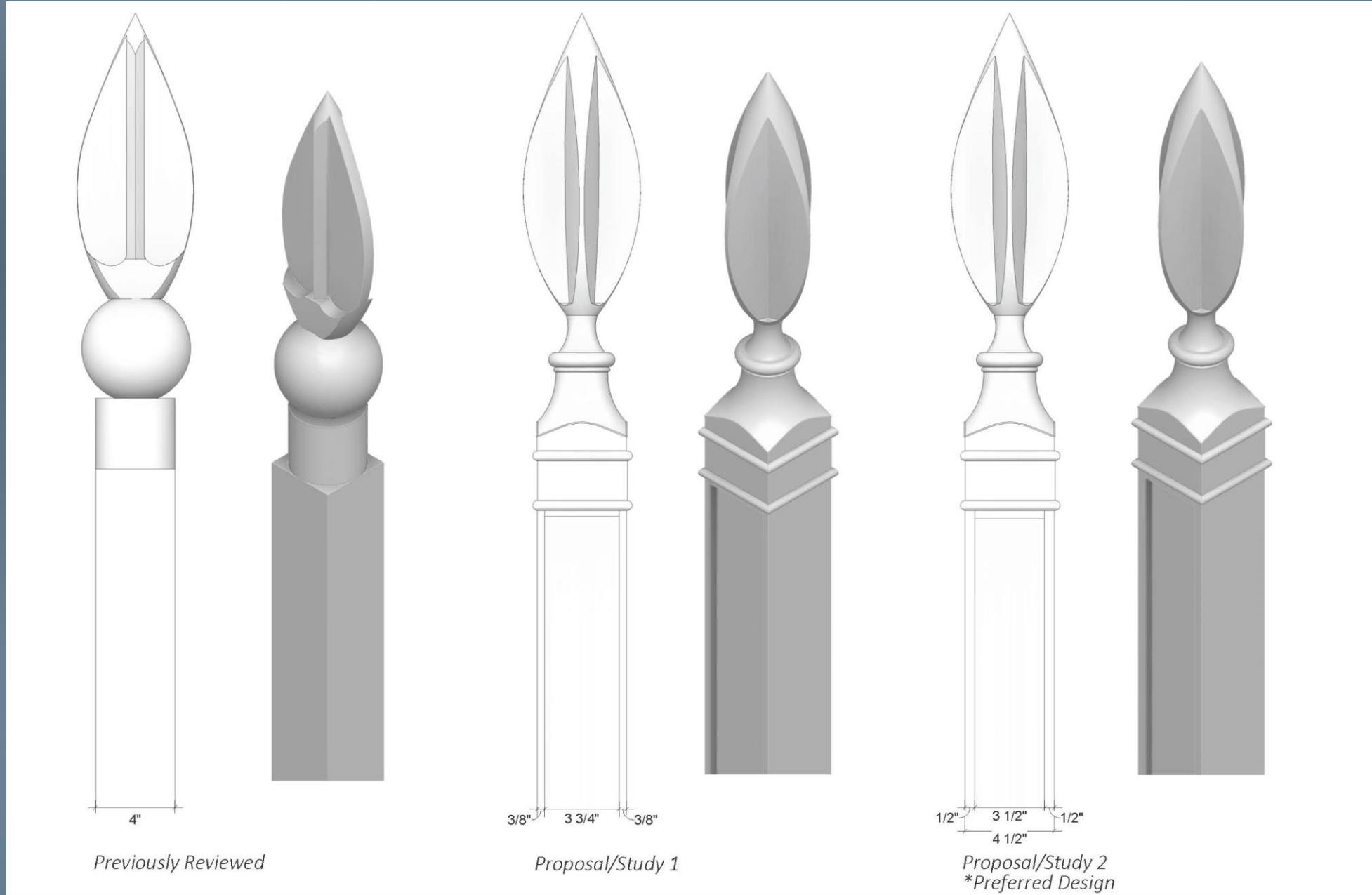
Proposal/Study 1  
\*Preferred design for  
fence posts

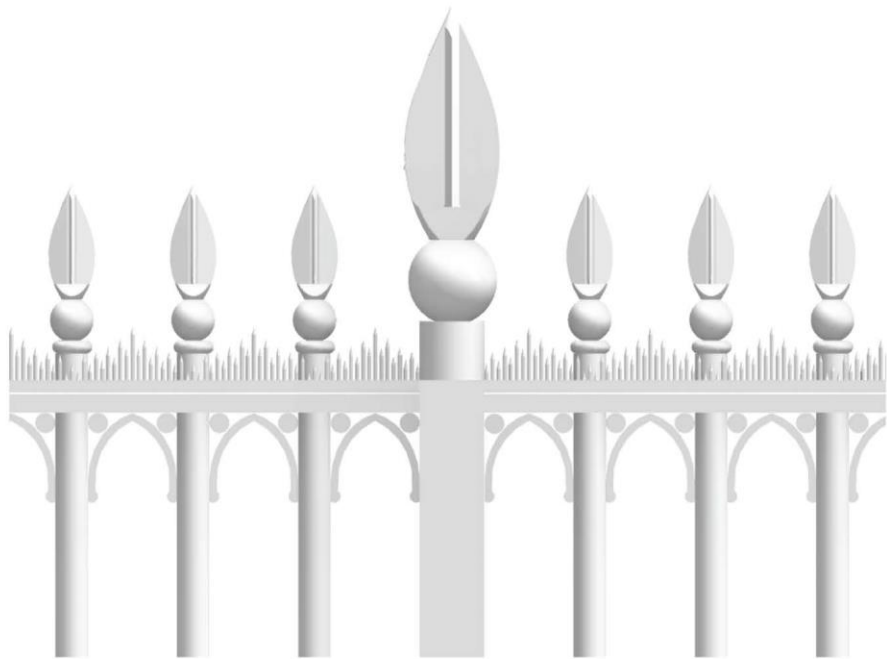


Proposal/Study 2

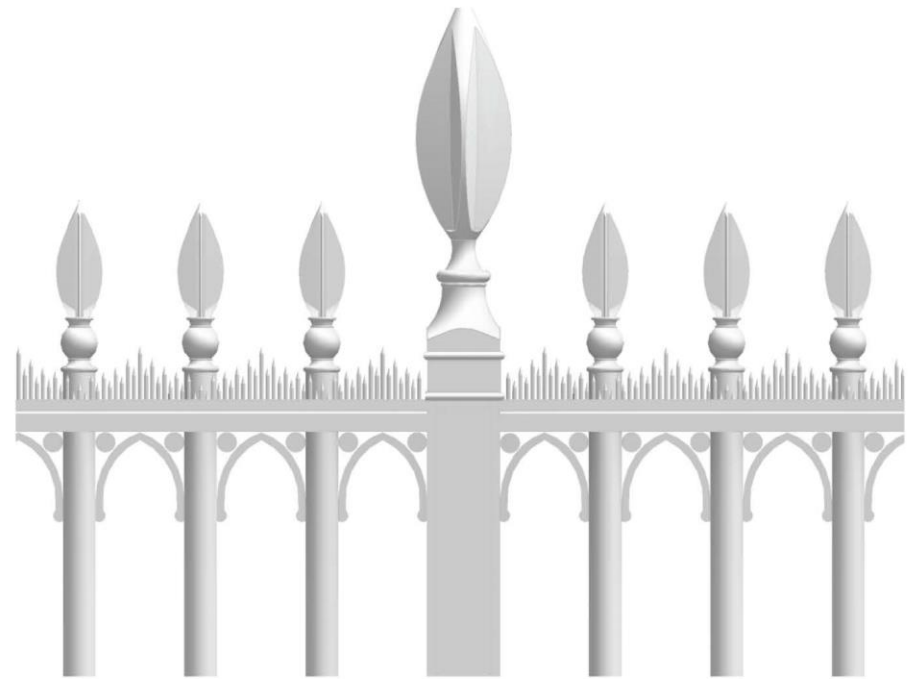


Proposal/Study 3  
\*Preferred design for  
gate posts

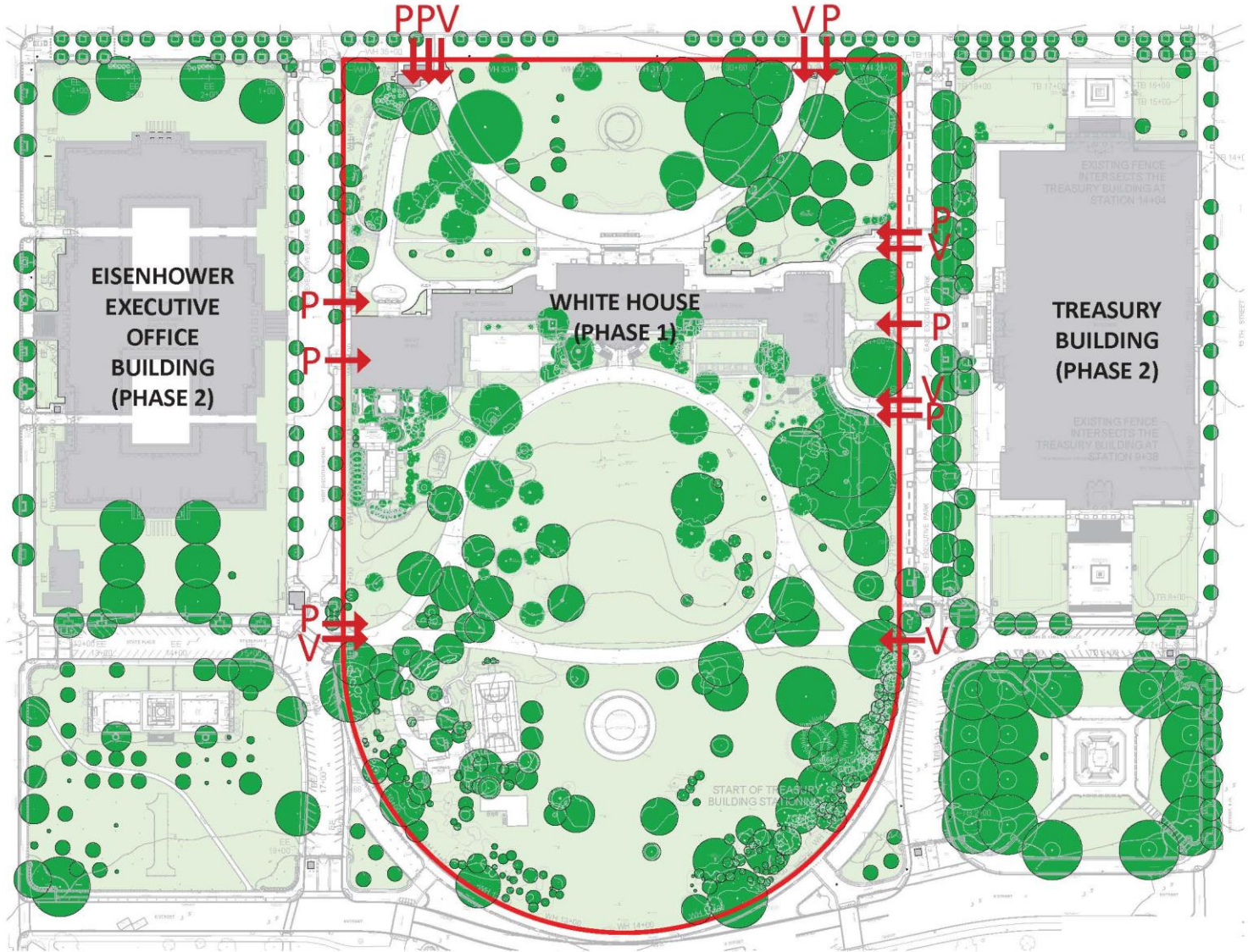




*Previously Reviewed*



*Current Preferred Design*



**P-** Pedestrian Gate    **V-** Vehicle Gate





Pedestrian Gate  
Pennsylvania Ave

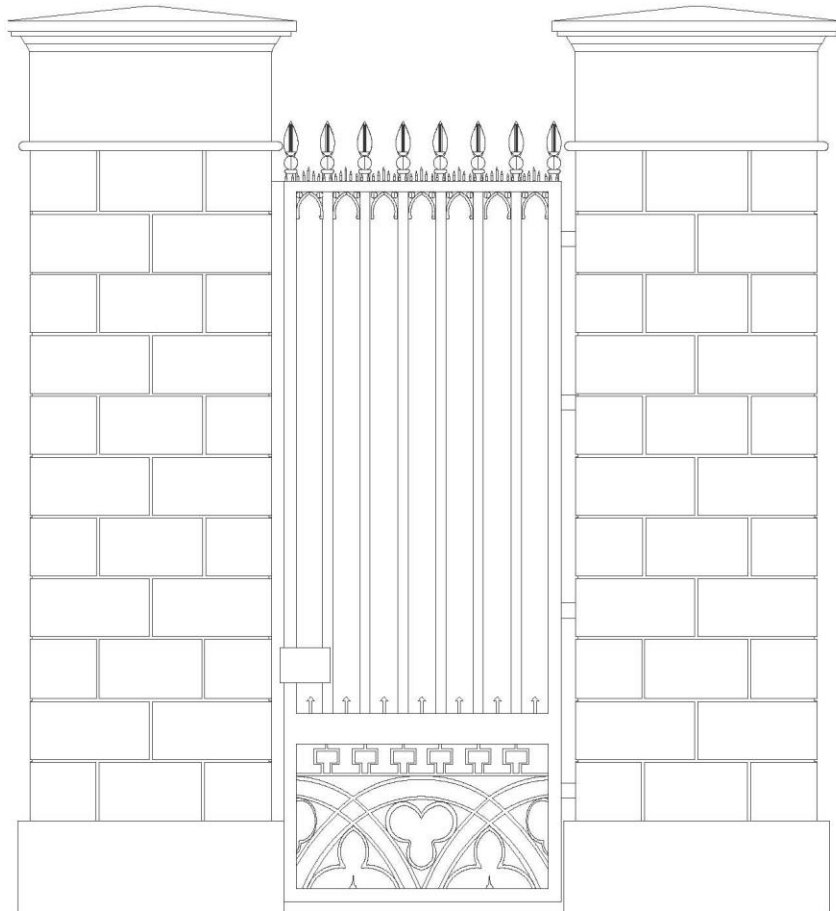


Visitor Entrance Gate  
East Executive

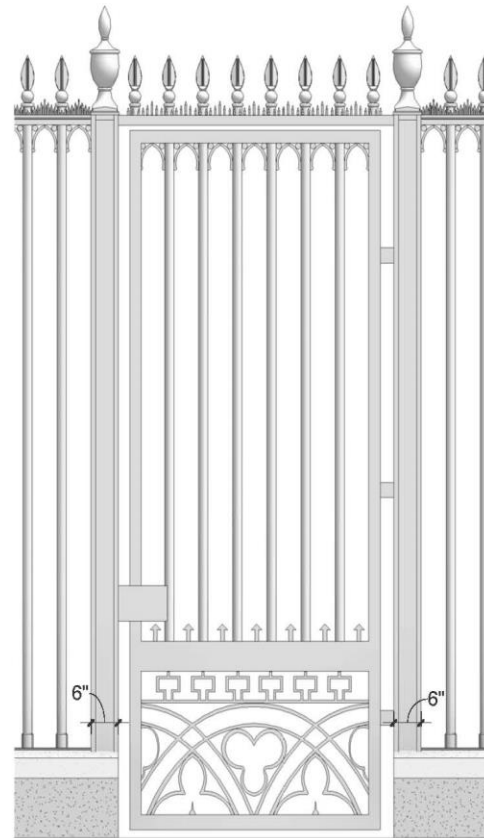


Vehicle Gate  
Gate to circular drive from Pennsylvania Ave

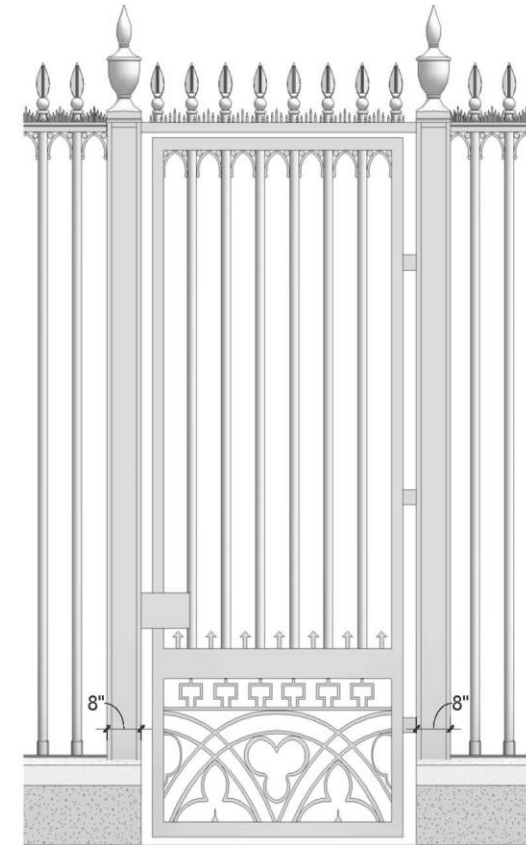




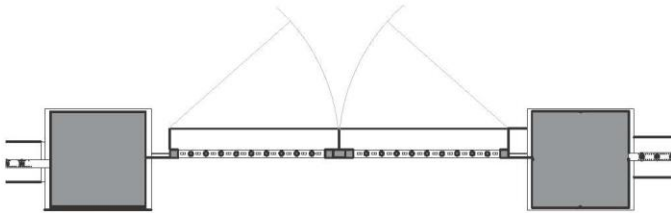
*Previously Reviewed*



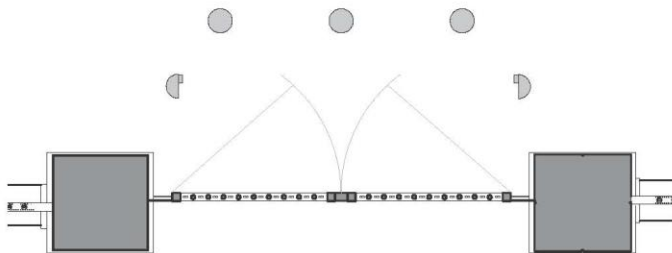
*Proposal/Study 1*  
*\*Preferred Design*



*Proposal/Study 2*



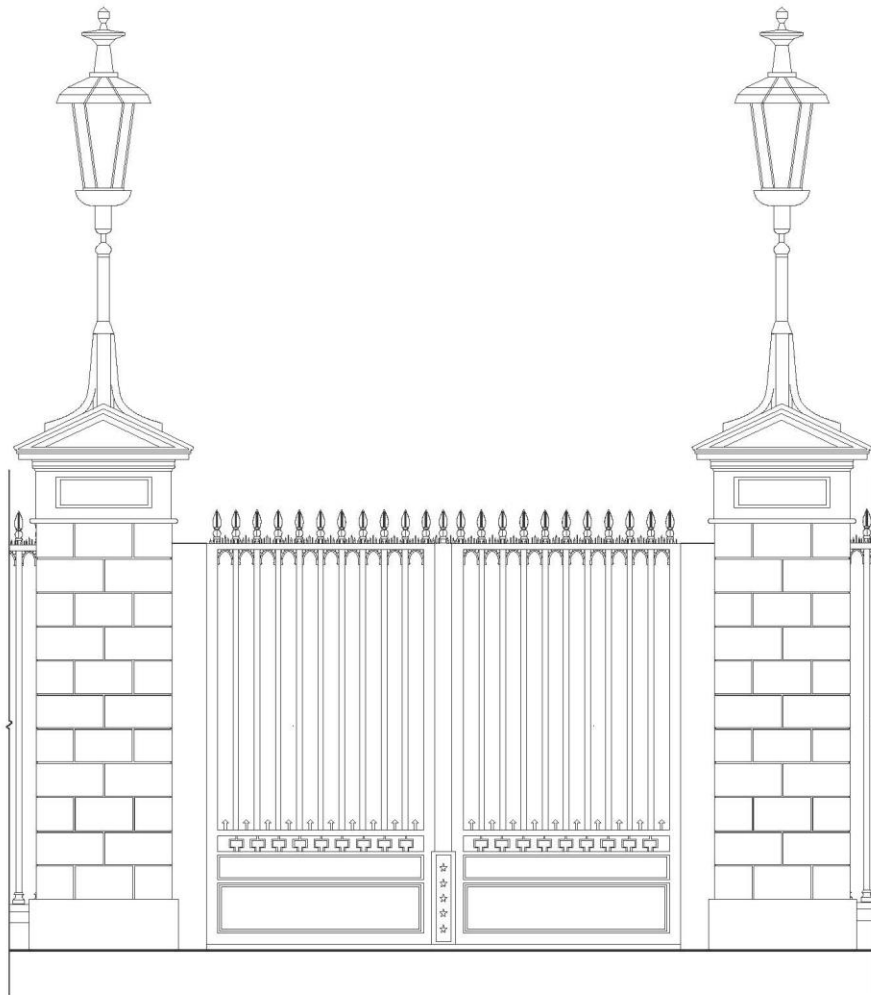
Option 1: Crash Rated Gate



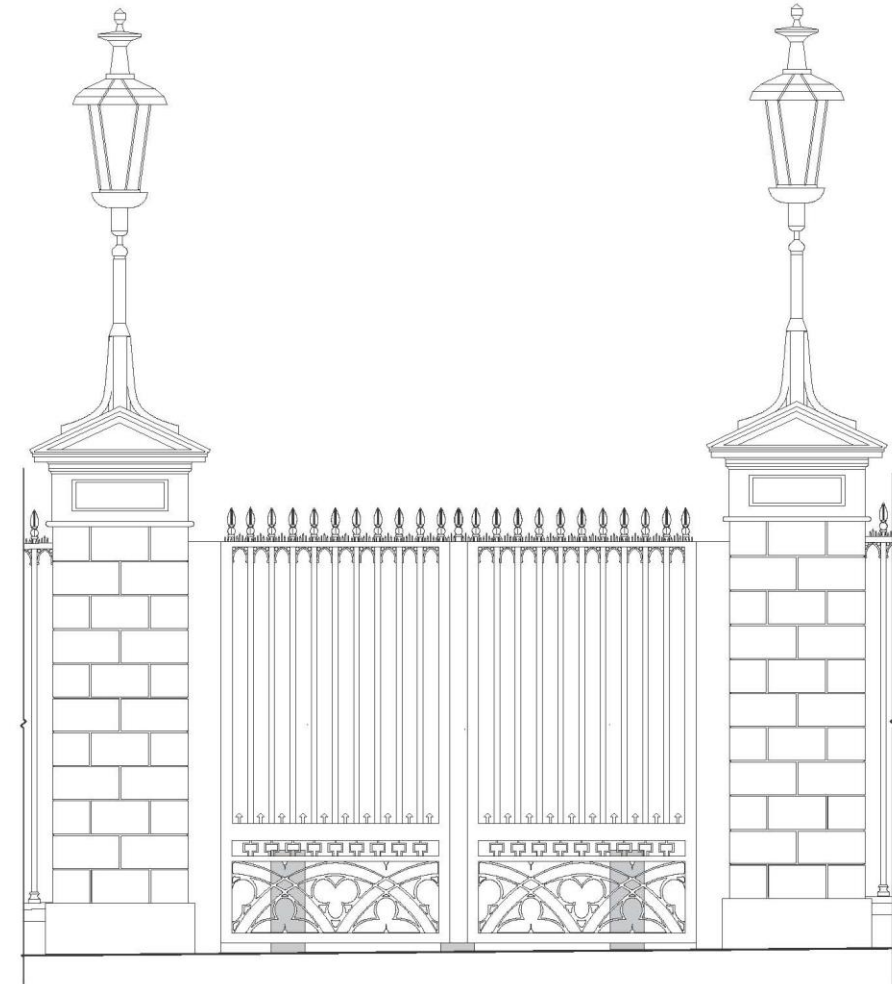
Option 2: Non-Crash  
Rated Gate with Crash  
Rated Retractable  
Bollards



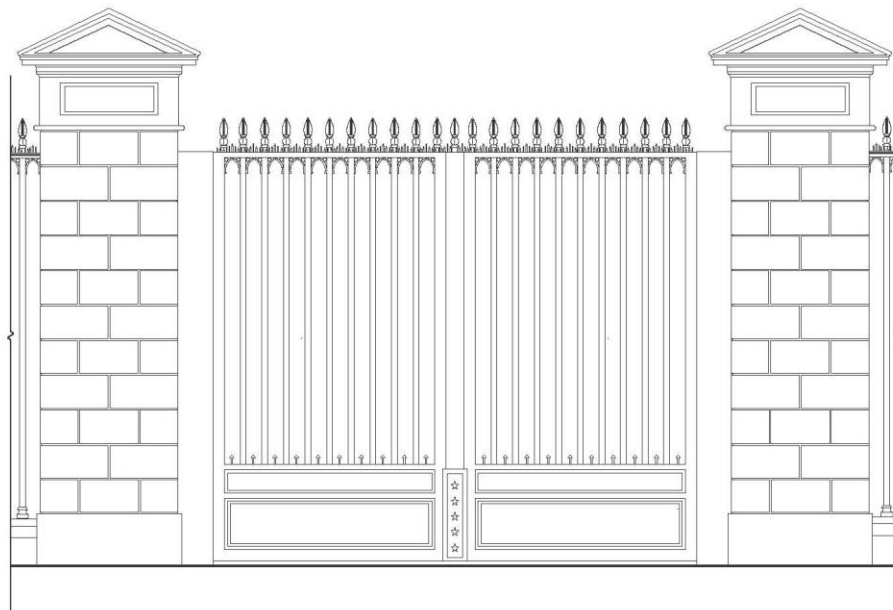
A-Retractable Bollards



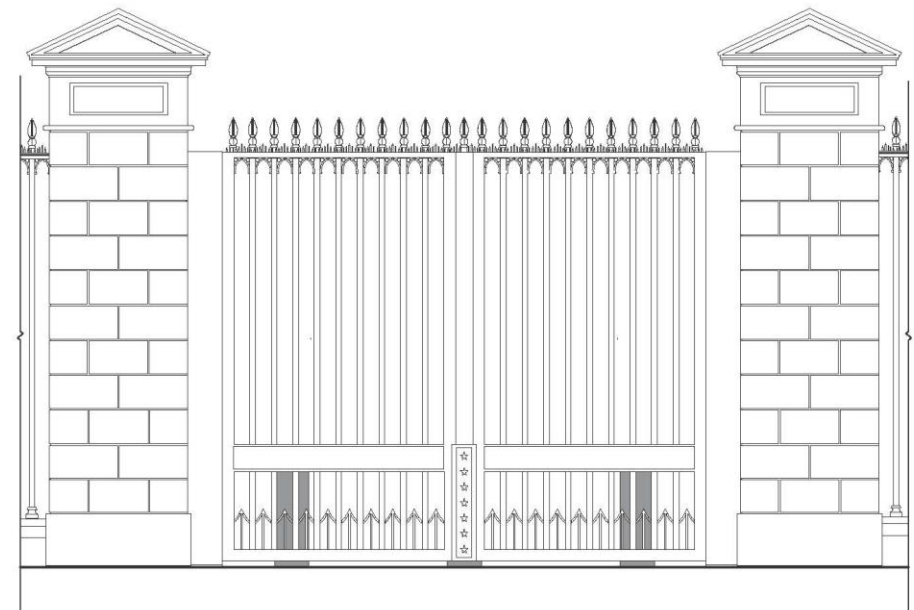
Option 1: Crash Rated Vehicle Gate  
Pennsylvania Ave.



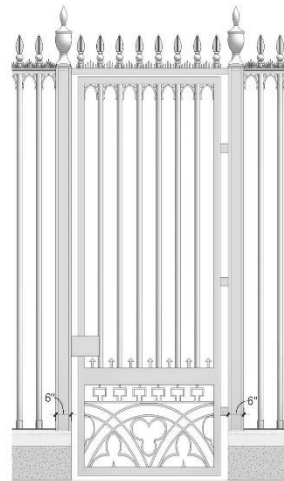
Option 2: Non-Crash Rated Vehicle Gate w/Bollards  
Pennsylvania Ave.



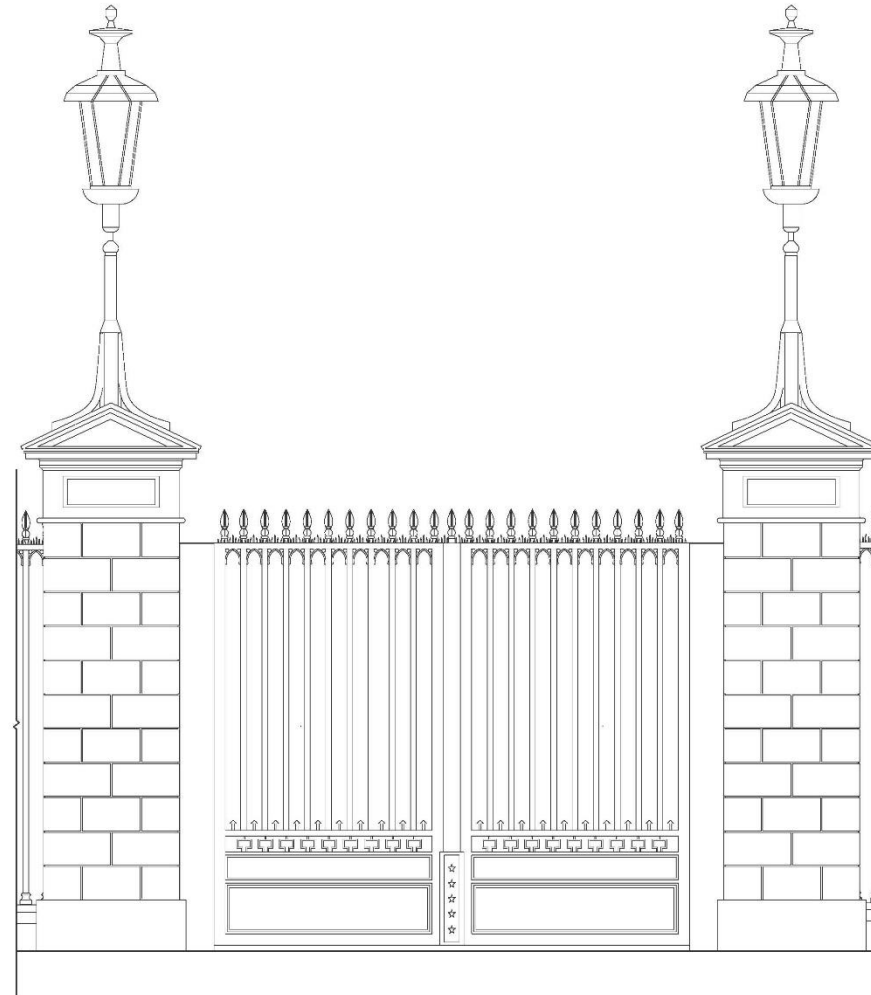
Option 1: Crash Rated Vehicle Gate  
East & West Executive



Option 2: Non-Crash Rated Vehicle Gate w/Bollards  
East & West Executive

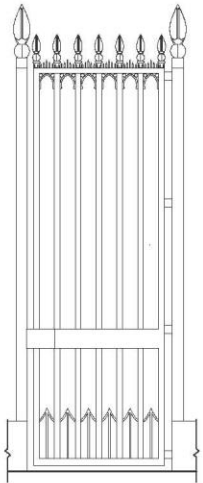


Pedestrian Gate Concept  
Pennsylvania Ave.

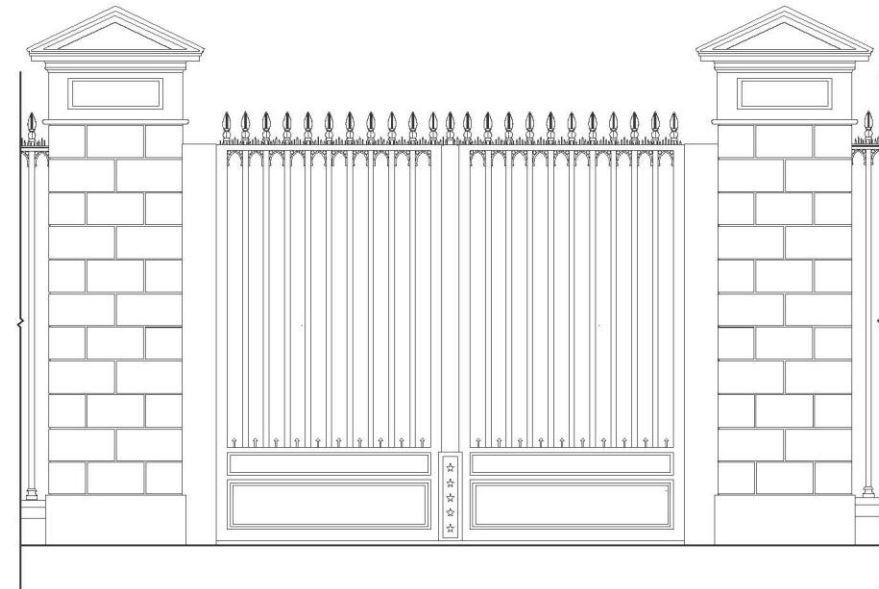
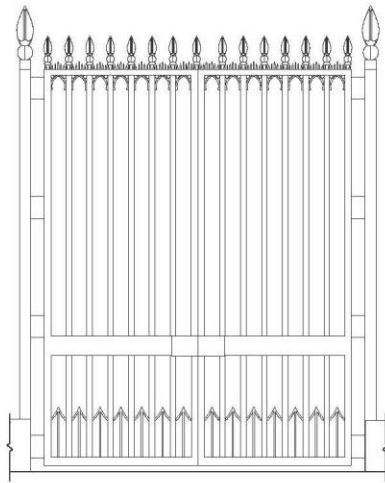


Crash Rated Vehicle Gate Concept  
Pennsylvania Ave.

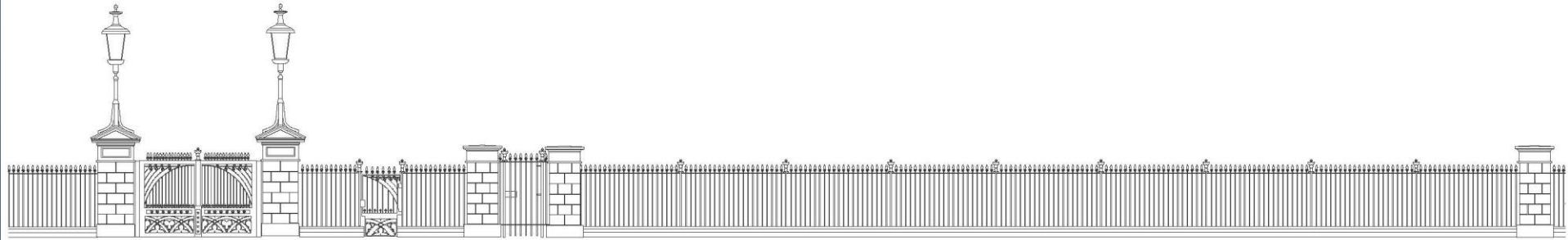




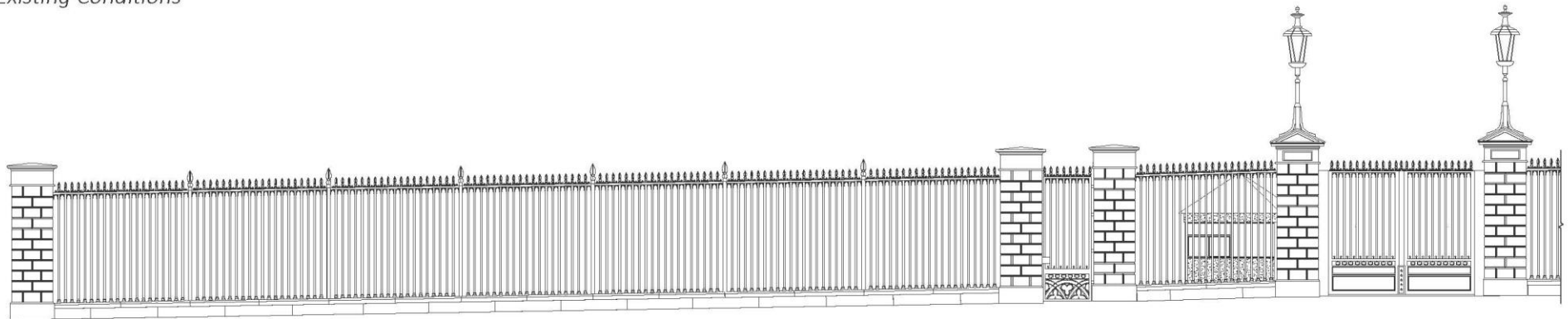
Pedestrian Gates Concept  
East & West Executive



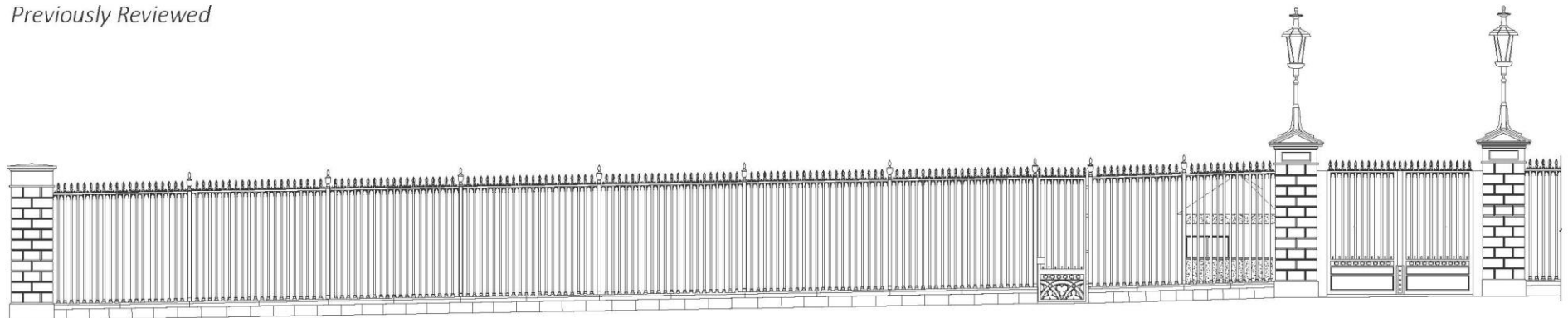
Crash Rated Vehicle Gate Concept  
East & West Executive



*Existing Conditions*



*Previously Reviewed*



*Current Preferred Design*



*Existing Conditions*





*Proposed Fence*



## Proposed Gates (Previous) - Pennsylvania Avenue, NW



*East Gates*





*East Gates*





*East Gates*





North side along Pennsylvania Avenue  
*Existing Conditions*



North side along Pennsylvania Avenue  
*Proposed Fence*





*Proposed Fence*



*Proposed Fence*





*Existing Conditions*



*Proposed Fence*





*Proposed Fence*